

PTO/SB/08A (08-00)

<div style="text-align: right;"> Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> </div>				<i>Complete if Known</i>	
				Application Number	10/628,137
				Filing Date	July 28, 2003
				First Named Inventor	Ben HITT
				Group Art Unit	1631
				Examiner Name	
				Attorney Docket Number	CORR-004/01US
Sheet	1	of	3		

[illegible]

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	†
		Office ³	Number ⁴	Kind Code ⁵ (if known)			
JAC	11		WO 00/55628	A1	Oxford Glycosciences	09-21-2000	
	12		WO 99/58972	A1	Tsipouras, Petros	11-18-1999	
	13		WO 00/49410	A3	The Government Of the United States of America as represented by the Secretary of the Department of Health and Human Services	08-24-2000	
JAC	14		WO 99/47925	A2	Oxford Glycosciences	09-23-1999	
	15		WO 99/41612		Oxford Glycosciences	08-19-1999	
	16		WO 93/05478	A1	Becton, Dickinson & Company	03-18-1993	

Examiner Signature	<i>Lee J. Caw</i>	Date Considered	9-29-05
-----------------------	-------------------	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number.

² See attached Kinds of U.S. Patent Documents.

¹ Enter Office that issued the document by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

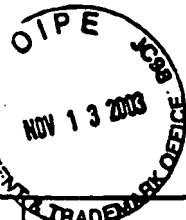
³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

Applicant is to place a check mark here if English language Translation is attached.

187338 v1/RE

40J%011.DOC

Please type a plus sign (+) inside this box →



PTO/SB/08A (08-00)

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		<i>Complete if Known</i>			
		Application Number	10/628,137		
		Filing Date	July 28, 2003		
		First Named Inventor	Ben HITT		
		Group Art Unit	1631		
Examiner Name					
Sheet	2	Of	3	Attorney Docket Number	CORR-004/01US

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
LHC	17	Loring, TW et al., "Identifying Potential Tumor Markers and Antigens by Database Mining and Rapid Expression Screening," Genome Research, 10(9):1393-1402 (September 2000)	
	18	Krishnamurthy, T. et al. "Detection of Pathogenic and Non-Pathogenic Bacteria by Matrix-assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry," Rapid Comms. in Mass Spectrometry, Vol 10, 883-888 (1996)	
	19	Adam, B-L et al., "Serum Protein Fingerprinting Coupled with a Pattern-matching Algorithm Distinguishes Prostate Cancer from Benign Prostate Hyperplasia and Healthy Men," Cancer Research 62, 3609-3614 (July 1, 2002).	
	20	Li, J. et al. "Proteomics and Bioinformatics Approaches for Identification of Serum Biomarkers to Detect Breast Cancer," Clinical Chemistry 48:8, 1296-1304 (2002).	
	21	Petricion III, E.F. et al., "Use of proteomic patterns in serum to identify ovarian cancer," The Lancet, Vol. 359, 572-577 (February 16, 2002).	
	22	Brown, M.P.S. et al. "Knowledge-based analysis of microarray gene expression data by using support vector machines," PNAS Vol. 97, No. 1, pp. 262-267 (January 4, 2000).	
	23	Kiem, H. & Phuc, D, "Using Rough Genetic and Kohonen's Neural Network for Conceptual Cluster Discovery in Data Mining," New Directions in Rough Sets, Data Mining and Granular-Soft Computing. International Workshop, RSFDGRC Proceedings, pp. 448-452 (November 9, 1999).	
	24	Chang, E.I et al., "Using Genetic Algorithms to Select and Create Features for Pattern Classification," UCNN International Joint Conf. on Neural Networks, pp. III-747 to III-752 (January 8, 1991).	
	25	Rosty C. et al., "Identification of Hepatocarcinoma-Intestine-Pancreas/Pancreatitis-associated Protein 1 as a Biomarker for Pancreatic Ductal Adenocarcinoma by Protein Biochip Technology," Cancer Research 62:1868-75 (March 15, 2002).	
	26	Claydon, M.A., "The rapid identification of intact microorganisms using mass spectrometry," Nature Biotech. 14:1584-1586 (November 1996).	
LHC	27	Bittl, J.A., "From Confusion to Clarity: Direct Thrombin Inhibitors for Patients with Heparin-Induced Thrombocytopenia," Cath. and Cardio. Interventions 52:473-475 (2001).	

Examiner Signature	<i>Lori L. Chen</i>	Date Considered	7-29-03
--------------------	---------------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number.

² Applicant is to place a check mark here if English language Translation attached.



Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/628,137		
		Filing Date	July 28, 2003		
		First Named Inventor	Ben HITT		
		Group Art Unit	1631		
Examiner Name					
Sheet	3	Of	3	Attorney Docket Number	CORR-004/01US

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ²	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ³
UC	28	Pawletz, C.P., "Rapid Protein Display Profiling of Cancer Progression Directly from Human Tissue Using a Protein Biochip," Drug Development Research 49:34-42 (2000).	
	29	Ciphergen European Update, 1:1-4 (2001).	
	30	Kohonen, T. "Self Organizing Maps (Springer 2001), pp. 1-70.	
	31	Jun Zhang, <i>Dynamics and Formation of Self-Organizing Maps</i> , in "Self-Organizing Map Formation: Foundations of Neural Computation," pp. 55-67 (Klaus Obermayer & Terrence J. Sejnowski eds.) (2001)	
	32	Kohonen, T. "Self-Organization and Associative Memory" (Springer 1988), pp. 30-67.	
UC	33	Holland, J.H., "Adaption in Natural and Artificial Systems: An Introductory Analysis with Applications to Biology, Control, and Artificial Intelligence" (MIT Press 2001), pp. 1-31; 89-120.	

Examiner Signature	<i>Lucy A. Clow</i>	Date Considered	7-29-05
-----------------------	---------------------	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Please type a plus sign (+) inside this box →



PTO/SB/08A (08-00)

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/628,137
		Filing Date	July 28, 2003
		First Named Inventor	Ben A. Hitt
		Group Art Unit	1631
		Examiner Name	Clow, Lori A.
Sheet 1 of 7	Attorney Docket Number	CORR-004/01US	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
LAC	34.	2002/0046198	AI	Hitt	04-18-2002
	35.	2002/0193950	AI	Gavin et al.	12-19-2002
	36.	2003/0129589	AI	Koster et al.	07-10-2003
	37.	2003/0054367	AI	Rich et al.	03-20-2003
	38.	2003/0077616	AI	Lomas	04-24-2003
	39.	4,122,343		Risby et al.	10-24-1978
	40.	5,687,716		Kaufmann et al.	11-18-1997
	41.	5,697,369		Long, Jr. et al.	12-16-1997
	42.	5,716,825		Hancock et al.	02-10-1998
	43.	5,719,060		Hutchens et al.	02-17-1998
	44.	5,790,761		Heseltine et al.	08-04-1998
	45.	5,839,438		Graettinger et al.	11-24-1998
	46.	5,905,258		Clemmer et al.	05-18-1999
	47.	5,946,640		Goodacre et al.	08-31-1999
	48.	6,025,128		Veltri et al.	02-15-2000
	49.	6,128,608		Barnhill	10-03-2000
	50.	6,157,921		Barnhill	12-05-2000
	51.	6,225,047		Hutchens et al.	05-01-2001
	52.	6,295,514	B1	Agrafiotis et al.	09-25-2001
	53.	6,329,652	B1	Windig et al.	12-11-2001
	54.	6,427,141	B1	Barnhill	07-30-2002
LAC	55.	6,558,902	B1	Hillenkamp	05-06-2003
	56.	6,571,227	B1	Agrafiotis et al.	05-27-2003
	57.	6,579,719		Hutchens et al.	06-17-2003
	58.	6,675,104	B2	Paulse et al.	01-06-2004
V	59.	6,680,203		Dasseux et al.	01-20-2004
	60.	6,844,165		Hutchens et al.	01-18-2005
LAC	61.	6,925,389		Hitt et al.	08-02-2005

Previously considered on 7/11/06 LAC

Examiner Signature	<i>Lori A. Clow</i>	Date Considered	6/15/07
--------------------	---------------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number.

² See attached Kinds of U.S. Patent Documents.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
			Application Number	10/628,137	
			Filing Date	July 28, 2003	
			First Named Inventor	Ben A. Hitt	
			Group Art Unit	1631	
			Examiner Name	Unassigned	
Sheet	2	of	7	Attorney Docket Number	CORR-004/01US

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Office ¹	Number ² (if known)	Kind Code ³		
LAC	62.		WO 01/20043	A1	Affymetrix, Inc.	03-22-2001
	63.		WO 01/31579	A2	Barnhill Technologies, LLC	05-03-2001
	64.		WO 01/31580	A2	Barnhill Technologies, LLC	05-03-2001
	65.		WO 01/84140	A2	Mischak et al.	11-08-2001
	66.		WO 02/059822	A2	Biowulf Technologies, LLC	08-01-2002
	67.		WO 02/088744	A2	Syn.X Pharma, Inc.	11-07-2002
	68.		WO 03/031031	A1	Ciphergen Biosystems, Inc. et al.	04-17-2003
LAC	69.		WO 02/06829	A2	Correlogic Systems, Inc.	01-24-2002

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²	
LAC	70.	ALAIYA, A. A. et al., "Classification of Human Ovarian Tumors Using Multivariate Data Analysis of Polypeptide Expression Patterns," Int. J. Cancer, 2000, pp. 731-736, Vol. 86.		
	71.	ASHFAQ, R. et al., "Evaluation of PAPNET™ System for Rescreening of Negative Cervical Smears," Diagnostic Cytopathology, 1995, pp. 31-36, Vol. 13, No. 1.		
	72.	ASTION, M. L. et al., "The Application of Backpropagation Neural Networks to Problems in Pathology and Laboratory Medicine," Arch Pathol Lab Med, October 1992, pp. 995-1001, Vol. 116.		
	73.	ATKINSON, E. N. et al., "Statistical Techniques for Diagnosing CIN Using Fluorescence Spectroscopy: SVD and CART," Journal of Cellular Biochemistry, 1995, Supplement 23, pp. 125-130.		
	74.	BABAIAN, R. J. et al., "Performance of a Neural Network in Detecting Prostate Cancer in the Prostate-Specific Antigen Reflex Range of 2.5 to 4.0 ng/ml," Urology, 2000, pp. 1000-1006, Vol. 56, No. 6.		
	75.	BAILEY-KELLOGG, C. et al., "Reducing Mass Degeneracy in SAR by MS by Stable Isotopic Labeling," Journal of Computational Biology, 2001, pp. 19-36, Vol. 8, No. 1.		
	76.	BELIC, I. et al., "Neural Network Methodologies for Mass Spectra Recognition," Vacuum, 1997, pp. 633-637, Vol. 48, No. 7-9.		
	77.	BELIC, I., "Neural Networks Methodologies for Mass Spectra Recognition," pp. 375-380., additional details unknown. (1995)		
	78.	BERIKOV, V. B. et al., "Regression Trees for Analysis of Mutational Spectra in Nucleotide Sequences," Bioinformatics, 1999, pp. 553-562, Vol. 15, Nos. 7/8.		
	79.	BREIMAN, L. et al., Classification and Regression Trees, Boca Raton, Chapman & Hall/CRC, 1984, pp. 174-265 (Ch. 6, Medical Diagnosis and Prognosis).		
LAC	80.	CAIRNS, A. Y. et al., "Towards the Automated Prescreening of Breast X-Rays," Alistair Cairns, Department of Mathematics & Computer Science, University of Dundee, pp. 1-5. (1986)		

* Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

² For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁴ Applicant is to place a check mark here if English language Translation is attached.

Previously considered on 7/11/06, except
reference 77, now considered. LAC

Corrected
9/19/07
LAC

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/628,137
		Filing Date	July 28, 2003
		First Named Inventor	Ben A. Hitt
		Group Art Unit	1631
		Examiner Name	Unassigned
Sheet	3	of	7
		Attorney Docket Number	CORR-004/01US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ³	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁴
LAC	81.	CAPRIOLI, R. M. et al., "Molecular Imaging of Biological Samples: Localization of Peptides and Proteins Using MALDI-TOF MS," Analytical Chemistry, 1997, pp. 4751-4760, Vol. 69, No. 23.	
	82.	CHACE, D. H. et al., "Laboratory Integration and Utilization of Tandem Mass Spectrometry in Neonatal Screening: A Model for Clinical Mass Spectrometry in the Next Millennium," Acta Paediatr. Suppl. 432, 1999, pp. 45-47.	
	83.	CHRISTIAENS, B. et al., "Fully Automated Method for the Liquid Chromatographic-Tandem Mass Spectrometric Determination of Cyproterone Acetate in Human Plasma using Restricted Access Material for On-Line Sample Clean-Up", Journal of Chromatography A, 2004, pp. 105-110, Vol. 1056.	
	84.	CHUN, J. et al., "Long-term Identification of Streptomyces Using Pyrolysis Mass Spectrometry and Artificial Neural Networks," Zbl. Bakt., 1997, pp. 258-266, Vol. 285, No. 2.	
	85.	CICCHETTI, D. V., "Neural Networks and Diagnosis in the Clinical Laboratory: State of the Art," Clinical Chemistry, 1992, pp. 9-10, Vol. 38, No. 1.	
	86.	CLAYDON, M. A., et al., "The Rapid Identification of Intact Microorganisms Using Mass Spectrometry," Abstract, 1 page, [online], [retrieved on 2003-02-06]. Retrieved from the internet <URL: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&dh=PubMed&list_uids=963... >.	
	87.	CRAWFORD, L. R. et al., "Computer Methods in Analytical Mass Spectrometry; Empirical Identification of Molecular Class," Analytical Chemistry, August 1968, pp. 1469-1474, Vol. 40, No. 10.	
	88.	CURRY, B. et al., "MSnet: A Neural Network That Classifies Mass Spectra," Stanford University, October, 1990, To be published in Tetrahedron Computer Methodology, pp. 1-31.	
	89.	DE BRABANDERE, V. I. et al., Isotope Dilution-Liquid Chromatography/Electrospray Ionization-Tandem Mass Spectrometry for the Determination of Serum Thyroxine as a Potential Reference Method, Rapid Communications in Mass Spectrometry, 1998, pp. 1099-1103, Vol. 12.	
	90.	DHAR, V., et al., Seven Methods for Transforming Corporate Data Into Business Intelligence, Upper Saddle River, N.J., Prentice Hall, 1997, pp. 52-76.	
	91.	DUDOIT, S. et al., "Comparison of Discrimination Methods for the Classification of Tumors using Gene Expression Data," UC Berkeley, March 7, 2000, pp. 1-51, [online], [retrieved on April 4, 2002]. Retrieved from the internet <URL: http://stat-www.berkeley.edu/users/terry/zarray/Html/discr.html >.	
	92.	DUDOIT, S. et al., "Comparison of Discrimination Methods for the Classification of Tumors Using Gene Expression Data," Mathematical Sciences Research Institute, Berkeley, CA, Technical Report # 576, June 2000, pp. 1-43.	
	93.	DZEROSKI, S. et al., "Diterpene Structure Elucidation from 13C NMR-Spectra with Machine Learning," Boston, Kluwer Academic Publishers, Intelligent Data Analysis in Medicine and Pharmacology, 1997, pp. 207-225.	
	94.	EGHBALDAR, A. et al., "Identification of Structural Features from Mass Spectrometry Using a Neural Network Approach: Application to Trimethylsilyl Derivatives Used for Medical Diagnosis," J. Chem. Inf. Comput. Sci., 1996, pp. 637-643, Vol. 36, No. 4.	
	95.	FREEMAN, R. et al., "Resolution of Batch Variations in Pyrolysis Mass Spectrometry of Bacteria by the Use of Artificial Neural Network Analysis," Antonie van Leeuwenhoek, 1995, pp. 253-260, Vol. 68.	
LAC	96.	FURLONG, J. W. et al., "Neural Network Analysis of Serial Cardiac Enzyme Data: A Clinical Application of Artificial Machine Intelligence," American Journal of Clinical Pathology, July 1991, pp. 134-141, Vol. 96, No. 1.	

previously considered on 7/11/06 LAC

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/628,137
				Filing Date	July 28, 2003
				First Named Inventor	Ben A. Hitt
				Group Art Unit	1631
				Examiner Name	Unassigned
Sheet	4	of	7	Attorney Docket Number	CORR-004/01US

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
LAC	97.	GASKELL, S. J., "Electrospray: Principles and Practice," Journal of Mass Spectrometry, 1997, pp. 677-688, Vol. 32.		
	98.	GEORGE, S. E., "A Visualization and Design Tool (AVD) for Data Mining with the Self-Organizing Feature Map," International Journal on Artificial Intelligence Tools, 2000, pp. 369-375, Vol. 9, No. 3.		
	99.	GOODACRE, R. et al. "Rapid Identification of Urinary Tract Infection Bacteria Using Hyperspectral Whole-Organism Fingerprinting and Artificial Neural Networks," Microbiology, 1998, pp. 1157-1170, Vol. 144.		
	100.	GOODACRE, R. et al., "Correction of Mass Spectral Drift Using Artificial Neural Networks," Analytical Chemistry, 1996, pp. 271-280, Vol. 68.		
	101.	GOODACRE, R. et al., "Discrimination between Methicillin-Resistant and Methicillin-Susceptible Staphylococcus Aureus Using Pyrolysis Mass Spectrometry and Artificial Neural Networks," Journal of Antimicrobial Chemotherapy, 1998, pp. 27-34, Vol. 41.		
	102.	GOODACRE, R. et al., "Identification and Discrimination of Oral Asaccharolytic Eubacterium spp. by Pyrolysis Mass Spectrometry and Artificial Neural Networks," Current Microbiology, 1996, pp. 77-84, Vol. 32.		
	103.	GOODACRE, R. et al., "Quantitative Analysis of Multivariate Data Using Artificial Neural Networks: A Tutorial Review and Applications to the Deconvolution of Pyrolysis Mass Spectra," Zbl. Bakt., 1996, pp. 516-539, Vol. 284.		
	104.	GOODACRE, R. et al., "Sub-species Discrimination, Using Pyrolysis Mass Spectrometry and Self-organising Neural Networks, of Propionibacterium acnes Isolated from Normal Human Skin," Zbl. Bakt., 1996, pp. 501-515, Vol. 284.		
	105.	GRAY, N. A. B., "Constraints on 'Learning Machine' Classification Methods," Analytical Chemistry, December 1976, pp. 2265-2268, Vol. 48, No. 14.		
	106.	HACKETT, P. S. et al., "Rapid SELDI Biomarker Protein Profiling of Serum from Normal and Prostate Cancer Patients," American Association for Cancer Research (abstract only), March 2000, pp. 563-564, Vol. 41.		
	107.	HALKET, J. M. et al., "Deconvolution Gas Chromatography/Mass Spectrometry of Urinary Organic Acids - Potential for Pattern Recognition and Automated Identification of Metabolic Disorders," Rapid Communications in Mass Spectrometry, 1999, pp. 279-284, Vol. 13.		
	108.	HASHEMI, R. R. et al., "Identifying and Testing of Signatures for Non-Volatile Biomolecules Using Tandem Mass Spectra," SIGBIO Newsletter, December 1995, pp. 11-19, Vol. 15, No. 3.		
	109.	HAUSEN, A. et al., "Determination of Neopterin in Human Urine by Reversed-Phase High-Performance Liquid Chromatography," Journal of Chromatography, 1982, pp. 61-70, Vol. 227.		
	110.	HESS, K. R. et al., "Classification and Regression Tree Analysis of 1000 Consecutive Patients with Unknown Primary Carcinoma," Clinical Cancer Research, November 1999, pp. 3403-3410, Vol. 5.		
	111.	JAIN, A. K. et al., "Statistical Pattern Recognition: A Review," IEEE Transactions On Pattern Analysis and Machine Intelligence, January 2000, pp. 4-37, Vol. 22, No. 1.		
LAC	112.	JELLUM, E. et al., "Mass Spectrometry in Diagnosis of Metabolic Disorders," Biomedical and Environmental Mass Spectrometry, 1988, pp. 57-62, Vol. 16.		

previously considered n-
7/11/06 LAC

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		<i>Complete if Known</i>			
		Application Number	10/628,137		
		Filing Date	July 28, 2003		
		First Named Inventor	Ben A. Hitt		
		Group Art Unit	1631		
		Examiner Name	Unassigned		
Sheet	5	of	7	Attorney Docket Number	CORR-004/01US

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
LAC	113.	JURS, P. C. et al., "Computerized Learning Machines Applied to Chemical Problems; Molecular Formula Determination from Low Resolution Mass Spectrometry," Analytical Chemistry, January 1969, pp. 21-27, Vol. 41, No. 1.		
	114.	KENYON, R. G. W. et al., "Application of Neural Networks to the Analysis of Pyrolysis Mass Spectra," Zbl. Bakt., 1997, pp. 267-277, Vol. 285.		
	115.	KOHAVI, R. et al., "Wrappers for Feature Subset Selection," Artificial Intelligence, 1997, pp. 273-324, Vol. 97.		
	116.	KOHNO, H. et al., "Quantitative Analysis of Scintiscan Matrices by Computer," Japanese Journal of Medical Electronics and Biological Engineering, August 1974, pp. 22-29.	English Abstract	
	117.	LEWIS, R. J., "An Introduction to Classification and Regression Tree (CART) Analysis," presented at 2000 Annual Meeting of the Society for Academic Emergency Medicine in San Francisco, California, 2000, pp. 1-14.		
	118.	LIOTTA, L. et al., "Molecular Profiling of Human Cancer," Nature Genetics, October 2000, pp. 48-56, Vol. 1.		
	119.	LOCKHART, D. J. et al., "Genomics, Gene Expression and DNA Arrays," Nature, June 2000, pp. 827-836, Vol. 405.		
	120.	LOWRY, S. R. et al., "Comparison of Various K-Nearest Neighbor Voting Schemes with the Self-Training Interpretive and Retrieval System for Identifying Molecular Substructures from Mass Spectral Data," Analytical Chemistry, October 1977, pp. 1720-1722, Vol. 49, No. 12.		
	121.	LUO, Y. et al., Quantification and Confirmation of Flunixin in Equine Plasma by Liquid Chromatograph - Quadrupole Time-Of-Flight Tandem Mass Spectrometry, Journal of Chromatography B, 2004, pp. 173-184, Vol. 801.		
	122.	MACFIE, H. J. H. et al., "Use of Canonical Variates Analysis in Differentiation of Bacteria by Pyrolysis Gas-Liquid Chromatography," Journal of General Microbiology, 1978, pp. 67-74, Vol. 104.		
	123.	MALINS, D. C. et al., "Models of DNA Structure Achieve Almost Perfect Discrimination Between Normal Prostate, Benign Prostatic Hyperplasia (BPH), and Adenocarcinoma and Have a High Potential for Predicting BPH and Prostate Cancer," Proceedings of the National Academy of Sciences, January 1997, pp. 259-264, Vol. 94.		
	124.	MARVIN, L. F. et al., "Characterization of a Novel Sepia Officinalis Neuropeptide using MALDI-TOL MS and Post-Source Decay Analysis," Peptides, 2001, pp. 1391-1396, Vol. 22.		
	125.	MEUZELAAR, H. L. C. et al., "A Technique for Fast and Reproducible Fingerprinting of Bacteria by Pyrolysis Mass Spectrometry," Analytical Chemistry, March 1973, pp. 587-590, Vol. 45, No. 3.		
	126.	MEYER, B. et al., "Identification of the 1H-NMR Spectra of Complex Oligosaccharides with Artificial Neural Networks," Science, February 1991, pp. 542-544, Vol. 251.		
	127.	Microsoft Press, Computer Dictionary, Second Edition, The Comprehensive Standard for Business, School, Library, and Home, Microsoft Press, Redmond, WA, 1994, pp. 87 and 408.		
	128.	MOLER, E. J. et al., "Analysis of Molecular Profile Data Using Generative and Discriminative Methods," Physiol. Genomics, December, 2000, pp. 109-126, Vol. 4.		
	129.	NIKULIN, A. E. et al., "Near-Optimal Region Selection for Feature Space Reduction: Novel Preprocessing Methods for Classifying MR Spectra," NMR Biomedicine, 1998, pp. 209-216, Vol. 11.		
	130.	NILSSON, T. et al., "Classification of Species in the Genus Penicillium by Curie Point-Pyrolysis/Mass Spectrometry Followed by Multivariate Analysis and Artificial Neural Networks," Journal of Mass Spectrometry, 1996, pp. 1422-1428, Vol. 31.		
LAC	131.	OH, J. M. C. et al., "A Database of Protein Expression in Lung Cancer," Proteomics, 2001, pp. 1303-1319, Vol. 1.		

previously considered
 ~ 7/11/06 LAC

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/628,137
		Filing Date	July 28, 2003
		First Named Inventor	Ben A. Hitt
		Group Art Unit	1631
		Examiner Name	Unassigned
Sheet 6 of 7	Attorney Docket Number	CORR-004/01US	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹⁶
Lae	132.	PEI, M. et al. "Feature Extraction Using Genetic Algorithms," Proceedings of the 1st International Symposium on Intelligent Data Engineering and Learning, IDEAL '98, Oct. 1998, pp. 371-384, Springer, Hong Kong.	
	133.	PETRICOIN, E. F., III et al., "Serum Proteomic Patterns for Detection of Prostate Cancer," Journal of the National Cancer Institute, October 16, 2002, pp. 1576-1578, Vol. 94, No. 20.	
	134.	PETRICOIN, E. F. et al., "Clinical Applications of Proteomics," Journal of Nutrition [online], July 2003 [retrieved on 2005-01-18], pages 1-19, Vol. 133, No. 7. Retrieved from the Internet: <URL: http://www.nutrition.org/cgi/content/full/133/7/2476S .	
	135.	PRIOR, C. et al., "Potential of Urinary Neopterin Excretion in Differentiating Chronic Non-A, Non-B Hepatitis from Fatty Liver," The Lancet, November 28, 1987, pp. 1235-1237.	
	136.	REED, J. "Trends in Commercial Bioinformatics," Oscar Gruss Biotechnology Review, March 2000, pp. 1-20.	
	137.	REIBNEGGER, G. et al., "Neural Networks as a Tool for Utilizing Laboratory Information: Comparison with Linear Discriminant Analysis and with Classification and Regression Trees," Proceedings of the National Academy of Sciences, December 1991, pp. 11426-11430, Vol. 88.	
	138.	RICKETTS, I. W. et al., "Towards the Automated Prescreening of Cervical Smears," Mar. 11, 1992, Applications of Image Processing in Mass Health Screening, IEE Colloquium, pp. 1-4.	
	139.	ROSES, A.D., "Pharmacogenetics and the Practice of Medicine," Nature, June 15, 2000, pp. 857-865, Vol. 405.	
	140.	Salford Systems, "Salford Systems White Paper Series," pp. 1-17 [online], [retrieved on 2000-10-17]. Retrieved from the internet: <URL: http://www.salford-systems.com/whitepaper.html >.	
	141.	SCHROLL, G. et al., "Applications of Artificial Intelligence for Chemical Inference, III. Aliphatic Ethers Diagnosed by Their Low-Resolution Mass Spectra and Nuclear Magnetic Resonance Data," Journal of the American Chemical Society, December 17, 1969, pp. 7440-7445.	
	142.	SHAW, R. A. et al., "Infrared Spectroscopy of Exfoliated Cervical Cell Specimens," Analytical and Quantitative Cytology and Histology, August 1999, pp. 292-302, Vol. 21, No. 4.	
	143.	SHEVCHENKO, A. et al., "MALDI Quadropole Time-of-Flight Mass Spectrometry: A Powerful Tool for Proteomic Research," Analytical Chemistry, May 1, 2000, pp. 2132-2141, Vol. 72, No. 9.	
	144.	STROUTHOPOULOS, C. et al., "PLA Using RLSA and a Neural Network," Engineering Applications of Artificial Intelligence, 1999, pp. 119-138, Vol. 12.	
	145.	TAYLOR, J. et al., "The Deconvolution of Pyrolysis Mass Spectra Using Genetic Programming: Application to the Identification of Some Eubacterium Species," FEMS Microbiology Letters, 1998, pp. 237-246, Vol. 160.	
	146.	TONG, C. S. et al., "Mass Spectral Search method using the Neural Network approach," International Joint Conference on Neural Networks, Washington, DC July 10-16, 1999, Proceedings, Vol. 6 of 6, pp. 3962-3967.	
	147.	TONG, C. S. et al., "Mass spectral search method using the neural network approach," Chemometrics and Intelligent Laboratory Systems, 1999, pp. 135-150, Vol. 49.	
	148.	VON EGGELING, F. et al, "Mass Spectrometry Meets Chip Technology: A New Proteomic Tool in Cancer Research?," Electrophoresis, 2001, pp. 2898-2902, Vol. 22, No. 14.	
Lae	149.	VOORHEES, K. J. et al., "Approaches to Pyrolysis/Mass Spectrometry Data Analysis of Biological Materials," in: Meuzelaar, H. L. C., Computer-Enhanced Analytical Spectroscopy, Vol. 2, New York, Plenum Press, 1990, pp. 259-275.	

previously considered on 7/11/2003 Lae

primarily considered on 7/16/06
except ref. 155, now considered. etc.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/628,137		
		Filing Date	July 28, 2003		
		First Named Inventor	Ben A. Hitt		
		Group Art Unit	1631		
		Examiner Name	Unassigned		
Sheet	7	of	7	Attorney Docket Number	CORR-004/01US

150.	WERTHER, W. et al., "Classification of Mass Spectra; a Comparison of Yes/No Classification Methods for the Recognition of Simple Structural Properties," Chemometrics and Intelligent Laboratory Systems, 1994, pp. 63-76, Vol. 22.
151.	WYTHOFF, B. J. et al., "Spectral Peak Verification and Recognition Using a Multilayered Neural Network," Analytical Chemistry, December 15, 1990, pp. 2702-2709, Vol. 62, No. 24.
152.	XIAO, Z. et al., Quantitation of Serum Prostate-Specific Membrane Antigen by a Novel Protein Biochip Immunoassay Discriminates Benign from Malignant Prostate Disease, Cancer Research, August 15, 2001, pp. 6029-6033, Vol. 61.
153.	YAO, X. et al. "Evolving Artificial Neural Networks for Medical Applications," Proceedings of the First Korea-Australia Joint Workshop on Evolutionary Computation, September 1995, pp. 1-16.
154.	YATES, J. R. III, "Mass Spectrometry and the Age of the Proteome," Journal of Mass Spectrometry, 1998, pp. 1-19, Vol. 33.
155.	ZHANG, Z. "Combining Multiple Biomarkers in Clinical Diagnostics - A Review of Methods and Issues," Center for Biomarker Discovery, Department of Pathology, Johns Hopkins Medical Institutions, 14 pages. (2001)
156.	ZHANG, Z. et al., "Proteomics and Bioinformatics Approaches for Identification of Serum Biomarkers to Detect Breast Cancer," Clinical Chemistry, 2002, pp. 1296-1304, Vol. 48, No. 8.
157.	International Search Report for PCT Application No. PCT/US03/23505, filed July 28, 2003, 3 pages.

Examiner Signature	<i>Lois A. Claw</i>	Date Considered	6/16/07
--------------------	---------------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
274302 v1/RE



Substitute for form 1449A/PTO

(use as many sheets as necessary)

Sheet	1	of	3
-------	---	----	---

Complete if Known

Application Number	10/628,137
Filing Date	July 28, 2003
First Named Inventor	Ben HITT
Group Art Unit	1631
Examiner Name	
Attorney Docket Number	CORR-004/01US

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	†
		Office ³	Number ⁴	Kind Code ⁵ (if known)			
AC	11		WO 00/55628	A1	Oxford Glycosciences	09-21-2000	
	12		WO 99/58972	A1	Tsipouras, Petros	11-18-1999	
	13		WO 00/49410	A3	The Government Of the United States of America as represented by the Secretary of the Department of Health and Human Services	08-24-2000	
	14		WO 99/47925	A2	Oxford Glycosciences	09-23-1999	
	15		WO 99/41612		Oxford Glycosciences	08-19-1999	
AC	16		WO 93/05478	A1	Becton, Dickinson & Company	03-18-1993	

Examiner Signature	<i>Leslie C. Caw</i>	Date Considered	9-29-05
-----------------------	----------------------	--------------------	---------

187338 v1/RE
401%011.DOC

Duplicate. Correction + add date
to reference 31.

Please type a plus sign (+) inside this box →



PTO/SB/08A (08-00)

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		<i>Complete if Known</i>			
		Application Number	10/628,137		
		Filing Date	July 28, 2003		
		First Named Inventor	Ben HITT		
		Group Art Unit	1631		
Examiner Name					
Sheet	2	Of	3	Attorney Docket Number	CORR-004/01US

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
LHC	17	Loging, TW et al., "Identifying Potential Tumor Markers and Antigens by Database Mining and Rapid Expression Screening," Genome Research, 10(9):1393-1402 (September 2000)	
	18	Krishnamurthy, T. et al. "Detection of Pathogenic and Non-Pathogenic Bacteria by Matrix-assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry," Rapid Comms. in Mass Spectrometry, Vol 10, 883-888 (1996)	
	19	Adam, B-L et al., "Serum Protein Fingerprinting Coupled with a Pattern-matching Algorithm Distinguishes Prostate Cancer from Benign Prostate Hyperplasia and Healthy Men," Cancer Research 62, 3609-3614 (July 1, 2002).	
	20	Li, J. et al. "Proteomics and Bioinformatics Approaches for Identification of Serum Biomarkers to Detect Breast Cancer," Clinical Chemistry 48:8, 1296-1304 (2002).	
	21	Petricion III, E.F. et al., "Use of proteomic patterns in serum to identify ovarian cancer," The Lancet, Vol. 359, 572-577 (February 16, 2002).	
	22	Brown, M.P.S. et al. "Knowledge-based analysis of microarray gene expression data by using support vector machines," PNAS Vol. 97, No. 1, pp. 262-267 (January 4, 2000).	
	23	Kiem, H. & Phuc, D. "Using Rough Genetic and Kohonen's Neural Network for Conceptual Cluster Discovery in Data Mining," New Directions in Rough Sets, Data Mining and Granular-Soft Computing. International Workshop, RSFDGRC Proceedings, pp. 448-452 (November 9, 1999).	
	24	Chang, E.I et al., "Using Genetic Algorithms to Select and Create Features for Pattern Classification," IJCNN International Joint Conf. on Neural Networks, pp. III-747 to III-752 (January 8, 1991).	
	25	Rosty C. et al., "Identification of Hepatocarcinoma-Intestine-Pancreas/Pancreatitis-associated Protein I as a Biomarker for Pancreatic Ductal Adenocarcinoma by Protein Biochip Technology," Cancer Research 62:1868-75 (March 15, 2002).	
	26	Claydon, M.A., "The rapid identification of intact microorganisms using mass spectrometry," Nature Biotech. 14:1584-1586 (November 1996).	
LHC	27	Bittl, J.A., "From Confusion to Clarity: Direct Thrombin Inhibitors for Patients with Heparin-Induced Thrombocytopenia," Cath. and Cardio. Interventions 52:473-475 (2001).	

Examiner Signature	<i>Louis L. Chen</i>	Date Considered	7-29-03
--------------------	----------------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number.

² Applicant is to place a check mark here if English language Translation attached.



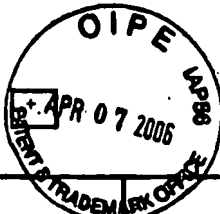
Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/628,137		
		Filing Date	July 28, 2003		
		First Named Inventor	Ben HITT		
		Group Art Unit	1631		
Examiner Name					
Sheet	3	Of	3	Attorney Docket Number	CORR-004/01US

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ²	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ³
LAC	28	Pawletz, C.P., "Rapid Protein Display Profiling of Cancer Progression Directly from Human Tissue Using a Protein Biochip," Drug Development Research 49:34-42 (2000).	
	29	Ciphergen European Update, 1:1-4 (2001).	
	30	Kohonen, T. "Self Organizing Maps (Springer 2001), pp. 1-70.	
	31	Jun Zhang, Dynamics and Formation of Self-Organizing Maps, in "Self-Organizing Map Formation: Foundations of Neural Computation," pp. 55-67 (Klaus Obermayer & Terrence J. Sejnowski eds.) (2001) LAC	
	32	Kohonen, T. "Self-Organization and Associative Memory" (Springer 1988), pp. 30-67.	
LAC	33	Holland, J.H., "Adaption in Natural and Artificial Systems: An Introductory Analysis with Applications to Biology, Control, and Artificial Intelligence" (MIT Press 2001), pp. 1-31; 89-120.	

Examiner Signature	<i>Luc A. Clow</i>	Date Considered	7-29-05
--------------------	--------------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Please type a plus sign (+) inside this box →



PTO/SB/08A (08-00)

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/628,137
		Filing Date	July 28, 2003
		First Named Inventor	Ben A. Hitt
		Group Art Unit	1631
		Examiner Name	Clow, Lori A.
Sheet 1 of 7	Attorney Docket Number	CORR-004/01US	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
LAC	34.	2002/0046198	A1	Hitt	04-18-2002
	35.	2002/0193950	A1	Gavin et al.	12-19-2002
	36.	2003/0129589	A1	Koster et al.	07-10-2003
	37.	2003/0054367	A1	Rich et al.	03-20-2003
	38.	2003/0077616	A1	Lomas	04-24-2003
	39.	4,122,343		Risby et al.	10-24-1978
	40.	5,687,716		Kaufmann et al.	11-18-1997
	41.	5,697,369		Long, Jr. et al.	12-16-1997
	42.	5,716,825		Hancock et al.	02-10-1998
	43.	5,719,060		Hutchens et al.	02-17-1998
	44.	5,790,761		Heseltine et al.	08-04-1998
	45.	5,839,438		Graettinger et al.	11-24-1998
	46.	5,905,258		Clemmer et al.	05-18-1999
	47.	5,946,640		Goodacre et al.	08-31-1999
	48.	6,025,128		Veltri et al.	02-15-2000
	49.	6,128,608		Barnhill	10-03-2000
	50.	6,157,921		Barnhill	12-05-2000
	51.	6,225,047		Hutchens et al.	05-01-2001
	52.	6,295,514	B1	Agrafiotis et al.	09-25-2001
	53.	6,329,652	B1	Windig et al.	12-11-2001
	54.	6,427,141	B1	Barnhill	07-30-2002
LAC	55.	6,558,902	B1	Hillenkamp	05-06-2003
	56.	6,571,227	B1	Agrafiotis et al.	05-27-2003
	57.	6,579,719		Hutchens et al.	06-17-2003
	58.	6,675,104	B2	Paulse et al.	01-06-2004
	59.	6,680,203		Dasseux et al.	01-20-2004
V	60.	6,844,165		Hutchens et al.	01-18-2005
LAC	61.	6,925,389		Hitt et al.	08-02-2005

Previously considered on 7/11/06 LAC

Examiner Signature	<i>Lori A. Clow</i>	Date Considered	6/15/07
--------------------	---------------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number.

² See attached Kinds of U.S. Patent Documents.

Duplicate. Correction & add date to Reference 80.

LAC
10/4/07

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
			Application Number	10/628,137	
			Filing Date	July 28, 2003	
			First Named Inventor	Ben A. Hill	
			Group Art Unit	1631	
			Examiner Name	Unassigned	
Sheet	2	of	7	Attorney Docket Number	CORR-004/01US

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Office ¹	Number ² (if known)	Kind Code ³		
LAC	62.		WO 01/20043	A1	Affymetrix, Inc.	03-22-2001
	63.		WO 01/31579	A2	Barnhill Technologies, LLC	05-03-2001
	64.		WO 01/31580	A2	Barnhill Technologies, LLC	05-03-2001
	65.		WO 01/84140	A2	Mischak et al.	11-08-2001
	66.		WO 02/059822	A2	Biowulf Technologies, LLC	08-01-2002
	67.		WO 02/088744	A2	Syn.X Pharma, Inc.	11-07-2002
	68.		WO 03/031031	A1	Ciphergen Biosystems, Inc. et al.	04-17-2003
	69.		WO 02/06829	A2	Correlogic Systems, Inc.	01-24-2002

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ⁴
LAC	70.	ALAIYA, A. A. et al., "Classification of Human Ovarian Tumors Using Multivariate Data Analysis of Polypeptide Expression Patterns," Int. J. Cancer, 2000, pp. 731-736, Vol. 86.				
	71.	ASHFAQ, R. et al., "Evaluation of PAPNET™ System for Rescreening of Negative Cervical Smears," Diagnostic Cytopathology, 1995, pp. 31-36, Vol. 13, No. 1.				
	72.	ASTION, M. L. et al., "The Application of Backpropagation Neural Networks to Problems in Pathology and Laboratory Medicine," Arch Pathol Lab Med, October 1992, pp. 995-1001, Vol. 116.				
	73.	ATKINSON, E. N. et al., "Statistical Techniques for Diagnosing CIN Using Fluorescence Spectroscopy: SVD and CART," Journal of Cellular Biochemistry, 1995, Supplement 23, pp. 125-130.				
	74.	BABAIA, R. J. et al., "Performance of a Neural Network in Detecting Prostate Cancer in the Prostate-Specific Antigen Reflex Range of 2.5 to 4.0 ng/ml," Urology, 2000, pp. 1000-1006, Vol. 56, No. 6.				
	75.	BAILEY-KELLOGG, C. et al., "Reducing Mass Degeneracy in SAR by MS by Stable Isotopic Labeling," Journal of Computational Biology, 2001, pp. 19-36, Vol. 8, No. 1.				
	76.	BELIC, I. et al., "Neural Network Methodologies for Mass Spectra Recognition," Vacuum, 1997, pp. 633-637, Vol. 48, No. 7-9.				
	77.	BELIC, I., "Neural Networks Methodologies for Mass Spectra Recognition," pp. 375-380., additional details unknown. (1995)				
	78.	BERIKOV, V. B. et al., "Regression Trees for Analysis of Mutational Spectra in Nucleotide Sequences," Bioinformatics, 1999, pp. 553-562, Vol. 15, Nos. 7/8.				
LAC	79.	BREIMAN, L. et al., Classification and Regression Trees, Boca Raton, Chapman & Hall/CRC, 1984, pp. 174-265 (Ch. 6, Medical Diagnosis and Prognosis).				
	80.	CAIRNS, A. Y. et al., "Towards the Automated Prescreening of Breast X-Rays," Alistair Cairns, Department of Mathematics & Computer Science, University of Dundee, pp. 1-5. (1992) LAC				

* Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

* For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

* Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

* Applicant is to place a check mark here if English language Translation is attached.

Previously considered in 7/11/06, except reference 77, now considered. LAC

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/628,137
		Filing Date	July 28, 2003
		First Named Inventor	Ben A. Hitt
		Group Art Unit	1631
		Examiner Name	Unassigned
Sheet 3 of 7	Attorney Docket Number	CORR-004/01US	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁴
LAC	81.	CAPRIOLI, R. M. et al., "Molecular Imaging of Biological Samples: Localization of Peptides and Proteins Using MALDI-TOF MS," Analytical Chemistry, 1997, pp. 4751-4760, Vol. 69, No. 23.	
	82.	CHACE, D. H. et al., "Laboratory Integration and Utilization of Tandem Mass Spectrometry in Neonatal Screening: A Model for Clinical Mass Spectrometry in the Next Millennium," Acta Paediatr. Suppl. 432, 1999, pp. 45-47.	
	83.	CHRISTIAENS, B. et al., "Fully Automated Method for the Liquid Chromatographic-Tandem Mass Spectrometric Determination of Cyproterone Acetate in Human Plasma using Restricted Access Material for On-Line Sample Clean-Up", Journal of Chromatography A, 2004, pp. 105-110, Vol. 1056.	
	84.	CHUN, J. et al., "Long-term Identification of Streptomyces Using Pyrolysis Mass Spectrometry and Artificial Neural Networks," Zbl. Bakt., 1997, pp. 258-266, Vol. 285, No. 2.	
	85.	CICCHETTI, D. V., "Neural Networks and Diagnosis in the Clinical Laboratory: State of the Art," Clinical Chemistry, 1992, pp. 9-10, Vol. 38, No. 1.	
	86.	CLAYDON, M. A., et al., "The Rapid Identification of Intact Microorganisms Using Mass Spectrometry," Abstract, 1 page, [online], (retrieved on 2003-02-06). Retrieved from the internet <URL: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list_uids+963... >.	
	87.	CRAWFORD, L. R. et al., "Computer Methods in Analytical Mass Spectrometry; Empirical Identification of Molecular Class," Analytical Chemistry, August 1968, pp. 1469-1474, Vol. 40, No. 10.	
	88.	CURRY, B. et al., "MSnet: A Neural Network That Classifies Mass Spectra," Stanford University, October, 1990, To be published in Tetrahedron Computer Methodology, pp. 1-31.	
	89.	DE BRABANDERE, V. I. et al., Isotope Dilution-Liquid Chromatography/Electrospray Ionization-Tandem Mass Spectrometry for the Determination of Serum Thyroxine as a Potential Reference Method, Rapid Communications in Mass Spectrometry, 1998, pp. 1099-1103, Vol. 12.	
	90.	DHAR, V., et al., Seven Methods for Transforming Corporate Data Into Business Intelligence, Upper Saddle River, N.J., Prentice Hall, 1997, pp. 52-76.	
	91.	DUDOIT, S. et al., "Comparison of Discrimination Methods for the Classification of Tumors using Gene Expression Data," UC Berkeley, March 7, 2000, pp. 1-51, [online], [retrieved on April 4, 2002]. Retrieved from the internet <URL: http://stat-www.berkeley.edu/users/terry/zarray/Html/discr.html >.	
	92.	DUDOIT, S. et al., "Comparison of Discrimination Methods for the Classification of Tumors Using Gene Expression Data," Mathematical Sciences Research Institute, Berkeley, CA, Technical Report # 576, June 2000, pp. 1-43.	
	93.	DZEROSKI, S. et al., "Diterpene Structure Elucidation from 13C NMR-Spectra with Machine Learning," Boston, Kluwer Academic Publishers, Intelligent Data Analysis in Medicine and Pharmacology, 1997, pp. 207-225.	
	94.	EGHBALDAR, A. et al., "Identification of Structural Features from Mass Spectrometry Using a Neural Network Approach: Application to Trimethylsilyl Derivatives Used for Medical Diagnosis," J. Chem. Inf. Comput. Sci., 1996, pp. 637-643, Vol. 36, No. 4.	
✓	95.	FREEMAN, R. et al., "Resolution of Batch Variations in Pyrolysis Mass Spectrometry of Bacteria by the Use of Artificial Neural Network Analysis," Antonie van Leeuwenhoek, 1995, pp. 253-260, Vol. 68.	
LAC	96.	FURLONG, J. W. et al., "Neural Network Analysis of Serial Cardiac Enzyme Data: A Clinical Application of Artificial Machine Intelligence," American Journal of Clinical Pathology, July 1991, pp. 134-141, Vol. 96, No. 1.	

previously considered on 7/11/06 LAC

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/628,137
				Filing Date	July 28, 2003
				First Named Inventor	Ben A. Hitt
				Group Art Unit	1631
				Examiner Name	Unassigned
Sheet	4	of	7	Attorney Docket Number	CORR-004/01US

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
LAC	97.	GASKELL, S. J., "Electrospray: Principles and Practice," Journal of Mass Spectrometry, 1997, pp. 677-688, Vol. 32.		
	98.	GEORGE, S. E., "A Visualization and Design Tool (AVID) for Data Mining with the Self-Organizing Feature Map," International Journal on Artificial Intelligence Tools, 2000, pp. 369-375, Vol. 9, No. 3.		
	99.	GOODACRE, R. et al. "Rapid Identification of Urinary Tract Infection Bacteria Using Hyperspectral Whole-Organism Fingerprinting and Artificial Neural Networks," Microbiology, 1998, pp. 1157-1170, Vol. 144.		
	100.	GOODACRE, R. et al., "Correction of Mass Spectral Drift Using Artificial Neural Networks," Analytical Chemistry, 1996, pp. 271-280, Vol. 68.		
	101.	GOODACRE, R. et al., "Discrimination between Methicillin-Resistant and Methicillin-Susceptible Staphylococcus Aureus Using Pyrolysis Mass Spectrometry and Artificial Neural Networks," Journal of Antimicrobial Chemotherapy, 1998, pp. 27-34, Vol. 41.		
	102.	GOODACRE, R. et al., "Identification and Discrimination of Oral Asaccharolytic Eubacterium spp. by Pyrolysis Mass Spectrometry and Artificial Neural Networks," Current Microbiology, 1996, pp. 77-84, Vol. 32.		
	103.	GOODACRE, R. et al., "Quantitative Analysis of Multivariate Data Using Artificial Neural Networks: A Tutorial Review and Applications to the Deconvolution of Pyrolysis Mass Spectra," Zbl. Bakt., 1996, pp. 516-539, Vol. 284.		
	104.	GOODACRE, R. et al., "Sub-species Discrimination, Using Pyrolysis Mass Spectrometry and Self-organising Neural Networks, of Propionibacterium acnes Isolated from Normal Human Skin," Zbl. Bakt., 1996, pp. 501-515, Vol. 284.		
	105.	GRAY, N. A. B., "Constraints on 'Learning Machine' Classification Methods," Analytical Chemistry, December 1976, pp. 2265-2268, Vol. 48, No. 14.		
	106.	HACKETT, P. S. et al., "Rapid SELDI Biomarker Protein Profiling of Serum from Normal and Prostate Cancer Patients," American Association for Cancer Research (abstract only), March 2000, pp. 563-564, Vol. 41.		
	107.	HALKET, J. M. et al., "Deconvolution Gas Chromatography/Mass Spectrometry of Urinary Organic Acids - Potential for Pattern Recognition and Automated Identification of Metabolic Disorders," Rapid Communications in Mass Spectrometry, 1999, pp. 279-284, Vol. 13.		
	108.	HASHEMI, R. R. et al., "Identifying and Testing of Signatures for Non-Volatile Biomolecules Using Tandem Mass Spectra," SIGBIO Newsletter, December 1995, pp. 11-19, Vol. 15, No. 3.		
	109.	HAUSEN, A. et al., "Determination of Neopterin in Human Urine by Reversed-Phase High-Performance Liquid Chromatography," Journal of Chromatography, 1982, pp. 61-70, Vol. 227.		
	110.	HESS, K. R. et al., "Classification and Regression Tree Analysis of 1000 Consecutive Patients with Unknown Primary Carcinoma," Clinical Cancer Research, November 1999, pp. 3403-3410, Vol. 5.		
	111.	JAIN, A. K. et al., "Statistical Pattern Recognition: A Review," IEEE Transactions On Pattern Analysis and Machine Intelligence, January 2000, pp. 4-37, Vol. 22, No. 1.		
LAC	112.	JELLUM, E. et al., "Mass Spectrometry in Diagnosis of Metabolic Disorders," Biomedical and Environmental Mass Spectrometry, 1988, pp. 57-62, Vol. 16.		

previously considered n-
7/11/06 LAC

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/628,137
		Filing Date	July 28, 2003
		First Named Inventor	Ben A. Hitt
		Group Art Unit	1631
		Examiner Name	Unassigned
Sheet 5 of 7	Attorney Docket Number	CORR-004/01US	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.?	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
LHC	113.	JURS, P. C. et al., "Computerized Learning Machines Applied to Chemical Problems; Molecular Formula Determination from Low Resolution Mass Spectrometry," Analytical Chemistry, January 1969, pp. 21-27, Vol. 41, No. 1.	
	114.	KENYON, R. G. W. et al., "Application of Neural Networks to the Analysis of Pyrolysis Mass Spectra," Zbl. Bakt., 1997, pp. 267-277, Vol. 285.	
	115.	KOHAU, R. et al., "Wrappers for Feature Subset Selection," Artificial Intelligence, 1997, pp. 273-324, Vol. 97.	
	116.	KOHNO, H. et al., "Quantitative Analysis of Scintiscan Matrices by Computer," Japanese Journal of Medical Electronics and Biological Engineering, August 1974, pp. 22-29.	English Abstract
	117.	LEWIS, R. J., "An Introduction to Classification and Regression Tree (CART) Analysis," presented at 2000 Annual Meeting of the Society for Academic Emergency Medicine in San Francisco, California, 2000, pp. 1-14.	
	118.	LIOTTA, L. et al., "Molecular Profiling of Human Cancer," Nature Genetics, October 2000, pp. 48-56, Vol. 1.	
	119.	LOCKHART, D. J. et al., "Genomics, Gene Expression and DNA Arrays," Nature, June 2000, pp. 827-836, Vol. 405.	
	120.	LOWRY, S. R. et al., "Comparison of Various K-Nearest Neighbor Voting Schemes with the Self-Training Interpretive and Retrieval System for Identifying Molecular Substructures from Mass Spectral Data," Analytical Chemistry, October 1977, pp. 1720-1722, Vol. 49, No. 12.	
	121.	LUO, Y. et al., Quantification and Confirmation of Flunixin in Equine Plasma by Liquid Chromatograph - Quadrupole Time-Of-Flight Tandem Mass Spectrometry, Journal of Chromatography B, 2004, pp. 173-184, Vol. 801.	
	122.	MACFIE, H. J. H. et al., "Use of Canonical Variates Analysis in Differentiation of Bacteria by Pyrolysis Gas-Liquid Chromatography," Journal of General Microbiology, 1978, pp. 67-74, Vol. 104.	
	123.	MALINS, D. C. et al., "Models of DNA Structure Achieve Almost Perfect Discrimination Between Normal Prostate, Benign Prostatic Hyperplasia (BPH), and Adenocarcinoma and Have a High Potential for Predicting BPH and Prostate Cancer," Proceedings of the National Academy of Sciences, January 1997, pp. 259-264, Vol. 94.	
	124.	MARVIN, L. F. et al., "Characterization of a Novel Sepia Officinalis Neuropeptide using MALDI-TOL MS and Post-Source Decay Analysis," Peptides, 2001, pp. 1391-1396, Vol. 22.	
	125.	MEUZELAAR, H. L. C. et al., "A Technique for Fast and Reproducible Fingerprinting of Bacteria by Pyrolysis Mass Spectrometry," Analytical Chemistry, March 1973, pp. 587-590, Vol. 45, No. 3.	
	126.	MEYER, B. et al., "Identification of the 1H-NMR Spectra of Complex Oligosaccharides with Artificial Neural Networks," Science, February 1991, pp. 542-544, Vol. 251.	
	127.	Microsoft Press, Computer Dictionary, Second Edition, The Comprehensive Standard for Business, School, Library, and Home, Microsoft Press, Redmond, WA, 1994, pp. 87 and 408.	
	128.	MOLER, E. J. et al., "Analysis of Molecular Profile Data Using Generative and Discriminative Methods," Physiol. Genomics, December, 2000, pp. 109-126, Vol. 4.	
	129.	NIKULIN, A. E. et al., "Near-Optimal Region Selection for Feature Space Reduction: Novel Preprocessing Methods for Classifying MR Spectra," NMR Biomedicine, 1998, pp. 209-216, Vol. 11.	
	130.	NILSSON, T. et al., "Classification of Species in the Genus Penicillium by Curie Point-Pyrolysis/Mass Spectrometry Followed by Multivariate Analysis and Artificial Neural Networks," Journal of Mass Spectrometry, 1996, pp. 1422-1428, Vol. 31.	
LHC	131.	OH, J. M. C. et al., "A Database of Protein Expression in Lung Cancer," Proteomics, 2001, pp. 1303-1319, Vol. 1.	

previously considered
n 7/11/06 LHC

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/628,137
		Filing Date	July 28, 2003
		First Named Inventor	Ben A. Hitt
		Group Art Unit	1631
		Examiner Name	Unassigned
Sheet 6 of 7	Attorney Docket Number	CORR-004/01US	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ⁹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹⁰
LAE	132.	PEI, M. et al. "Feature Extraction Using Genetic Algorithms," Proceedings of the 1st International Symposium on Intelligent Data Engineering and Learning, IDEAL '98, Oct. 1998, pp. 371-384, Springer, Hong Kong.	
	133.	PETRICOIN, E. F., III et al., "Serum Proteomic Patterns for Detection of Prostate Cancer," Journal of the National Cancer Institute, October 16, 2002, pp. 1576-1578, Vol. 94, No. 20.	
	134.	PETRICOIN, E. F. et al., "Clinical Applications of Proteomics," Journal of Nutrition [online], July 2003 [retrieved on 2005-01-18], pages 1-19, Vol. 133, No. 7. Retrieved from the Internet: <URL: http://www.nutrition.org/cgi/content/full/133/7/2476S .	
	135.	PRIOR, C. et al., "Potential of Urinary Neopterin Excretion in Differentiating Chronic Non-A, Non-B Hepatitis from Fatty Liver," The Lancet, November 28, 1987, pp. 1235-1237.	
	136.	REED, J. "Trends in Commercial Bioinformatics," Oscar Gruss Biotechnology Review, March 2000, pp. 1-20.	
	137.	REIBNEGGER, G. et al., "Neural Networks as a Tool for Utilizing Laboratory Information: Comparison with Linear Discriminant Analysis and with Classification and Regression Trees," Proceedings of the National Academy of Sciences, December 1991, pp. 11426-11430, Vol. 88.	
	138.	RICKETTS, I. W. et al., "Towards the Automated Prescreening of Cervical Smears," Mar. 11, 1992, Applications of Image Processing in Mass Health Screening, IEE Colloquium, pp. 1-4.	
	139.	ROSES, A.D., "Pharmacogenetics and the Practice of Medicine," Nature, June 15, 2000, pp. 857-865, Vol. 405.	
	140.	Salford Systems, "Salford Systems White Paper Series," pp. 1-17 [online], [retrieved on 2000-10-17]. Retrieved from the internet: <URL: http://www.salford-systems.com/whitepaper.html >.	
	141.	SCHROLL, G. et al., "Applications of Artificial Intelligence for Chemical Inference, III. Aliphatic Ethers Diagnosed by Their Low-Resolution Mass Spectra and Nuclear Magnetic Resonance Data," Journal of the American Chemical Society, December 17, 1969, pp. 7440-7445.	
	142.	SHAW, R. A. et al., "Infrared Spectroscopy of Exfoliated Cervical Cell Specimens," Analytical and Quantitative Cytology and Histology, August 1999, pp. 292-302, Vol. 21, No. 4.	
	143.	SHEVCHENKO, A. et al., "MALDI Quadropole Time-of-Flight Mass Spectrometry: A Powerful Tool for Proteomic Research," Analytical Chemistry, May 1, 2000, pp. 2132-2141, Vol. 72, No. 9.	
	144.	STROUTHOPOULOS, C. et al., "PLA Using RLSA and a Neural Network," Engineering Applications of Artificial Intelligence, 1999, pp. 119-138, Vol. 12.	
	145.	TAYLOR, J. et al., "The Deconvolution of Pyrolysis Mass Spectra Using Genetic Programming: Application to the Identification of Some Eubacterium Species," FEMS Microbiology Letters, 1998, pp. 237-246, Vol. 160.	
	146.	TONG, C. S. et al., "Mass Spectral Search method using the Neural Network approach," International Joint Conference on Neural Networks, Washington, DC July 10-16, 1999, Proceedings, Vol. 6 of 6, pp. 3962-3967.	
	147.	TONG, C. S. et al., "Mass spectral search method using the neural network approach," Chemometrics and Intelligent Laboratory Systems, 1999, pp. 135-150, Vol. 49.	
	148.	VON.EGGELENG, F. et al., "Mass Spectrometry Meets Chip Technology: A New Proteomic Tool in Cancer Research?," Electrophoresis, 2001, pp. 2898-2902, Vol. 22, No. 14.	
LAE	149.	VOORHEES, K. J. et al., "Approaches to Pyrolysis/Mass Spectrometry Data Analysis of Biological Materials," in: Meuzelaar, H. L. C., Computer-Enhanced Analytical Spectroscopy, Vol. 2, New York, Plenum Press, 1990, pp. 259-275.	

previously considered on 7/11/03 LAE

previously considered on 7/14/06
except ref. 155, now considered. etc.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		<i>Complete if Known</i>	
		Application Number	10/628,137
		Filing Date	July 28, 2003
		First Named Inventor	Ben A. Hitt
		Group Art Unit	1631
		Examiner Name	Unassigned
Sheet 7 of 7	Attorney Docket Number	CORR-004/01US	

150.	WERTHER, W. et al., "Classification of Mass Spectra; a Comparison of Yes/No Classification Methods for the Recognition of Simple Structural Properties," Chemometrics and Intelligent Laboratory Systems, 1994, pp. 63-76, Vol. 22.	
151.	WYTHOFF, B. J. et al., "Spectral Peak Verification and Recognition Using a Multilayered Neural Network," Analytical Chemistry, December 15, 1990, pp. 2702-2709, Vol. 62, No. 24.	
152.	XIAO, Z. et al., Quantitation of Serum Prostate-Specific Membrane Antigen by a Novel Protein Biochip Immunoassay Discriminates Benign from Malignant Prostate Disease, Cancer Research, August 15, 2001, pp. 6029-6033, Vol. 61.	
153.	YAO, X. et al. "Evolving Artificial Neural Networks for Medical Applications," Proceedings of the First Korea-Australia Joint Workshop on Evolutionary Computation, September 1995, pp. 1-16.	
154.	YATES, J. R. III, "Mass Spectrometry and the Age of the Proteome," Journal of Mass Spectrometry, 1998, pp. 1-19, Vol. 33.	
155.	ZHANG, Z. "Combining Multiple Biomarkers in Clinical Diagnostics - A Review of Methods and Issues," Center for Biomarker Discovery, Department of Pathology, Johns Hopkins Medical Institutions, 14 pages. (2001)	
156.	ZHANG, Z. et al., "Proteomics and Bioinformatics Approaches for Identification of Serum Biomarkers to Detect Breast Cancer," Clinical Chemistry, 2002, pp. 1296-1304, Vol. 48, No. 8.	
157.	International Search Report for PCT Application No. PCT/US03/23505, filed July 28, 2003, 3 pages.	

Examiner Signature	<i>Lois A. Claw</i>	Date Considered	6/15/07
--------------------	---------------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
274302 v1/RE